

FIG. 1A



FIG. 1B

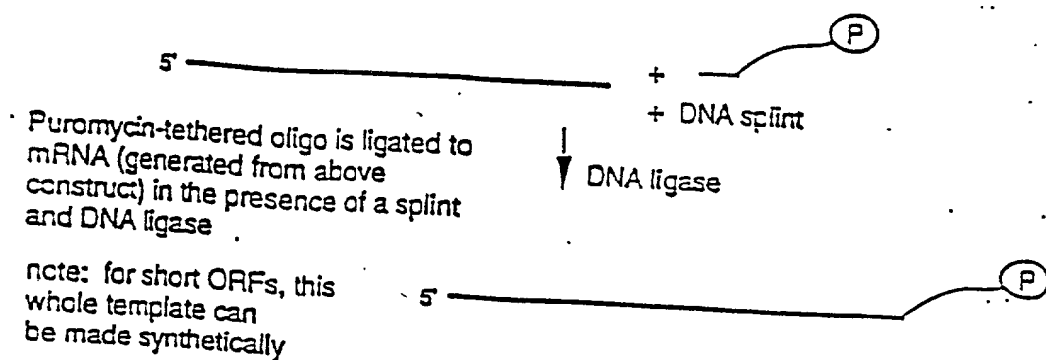
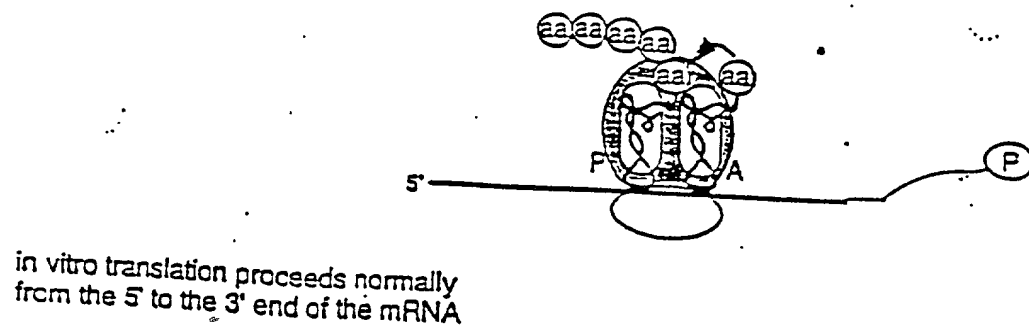
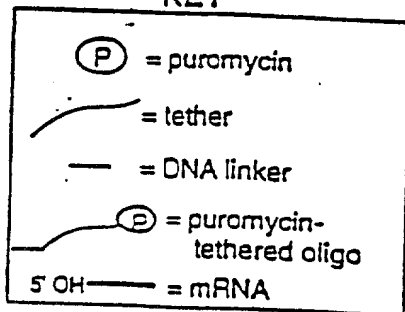


FIG. 1C



covalently linked puromycin enters the A site and attacks peptidyl tRNA in P site

KEY



Release of RNA-protein fusion with high salt wash of Ribosome

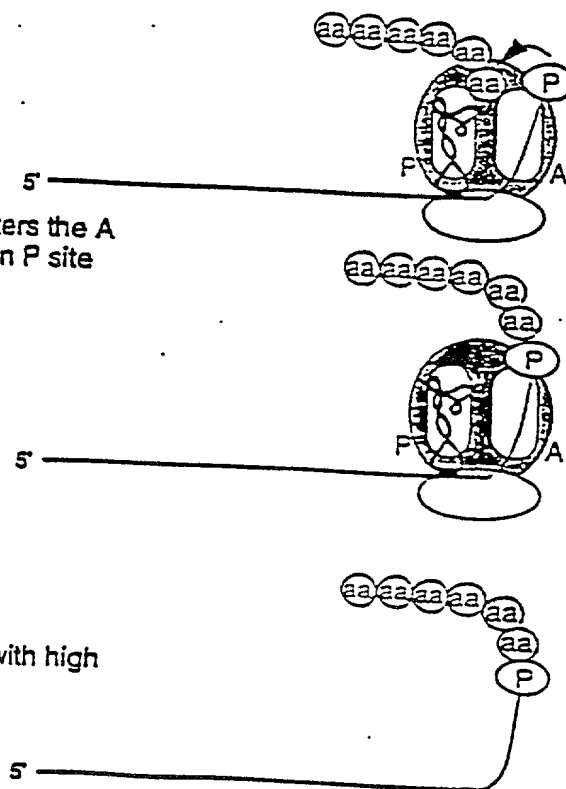


Figure 2. Generalized Protocol for Selection Experiments

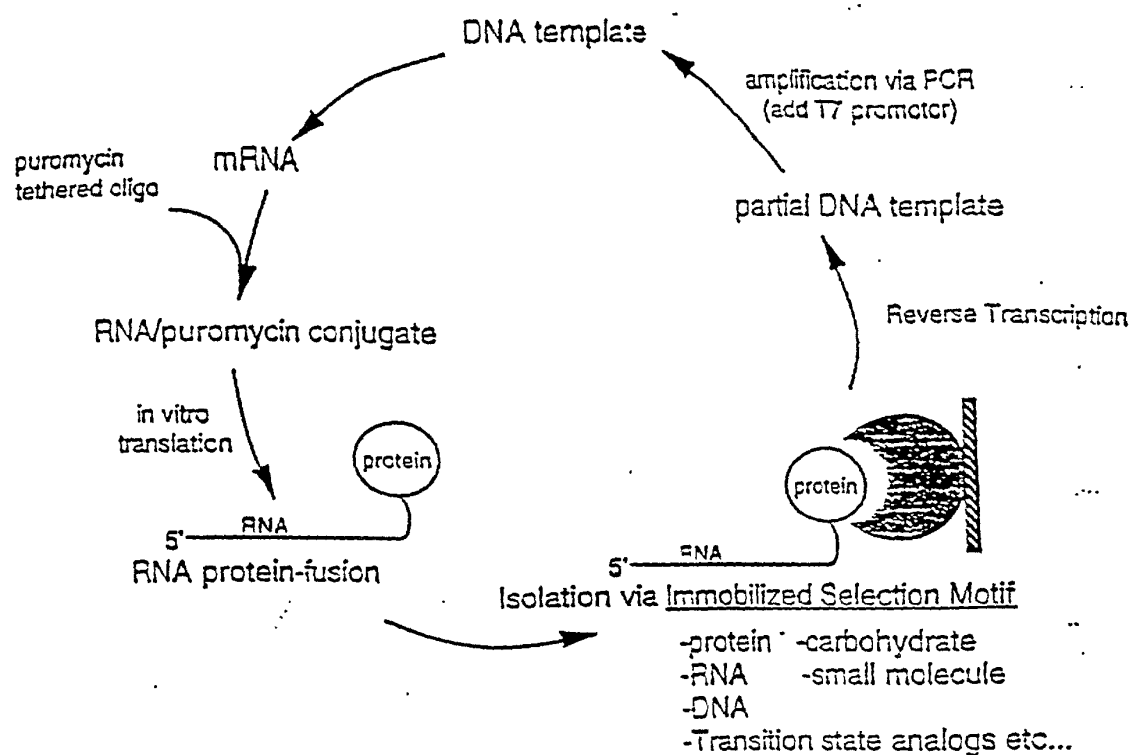


Figure 3.

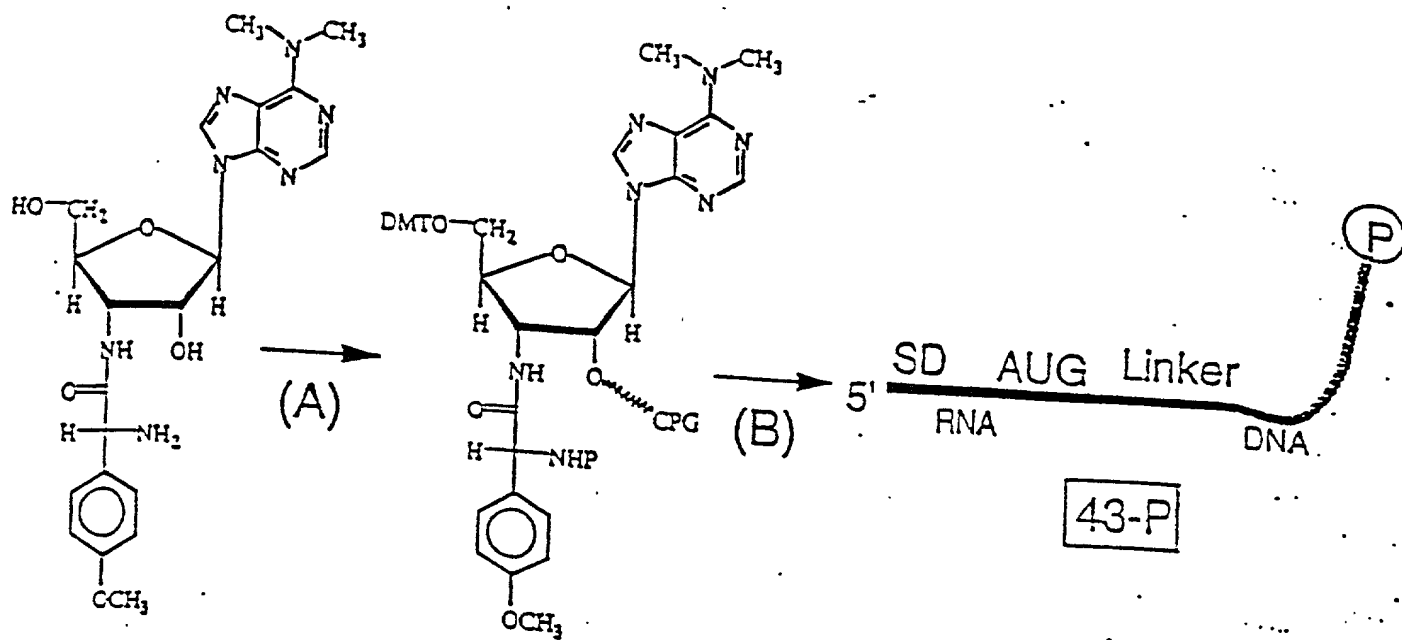
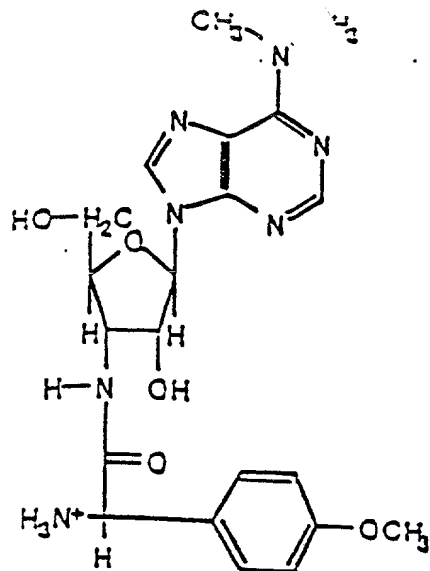
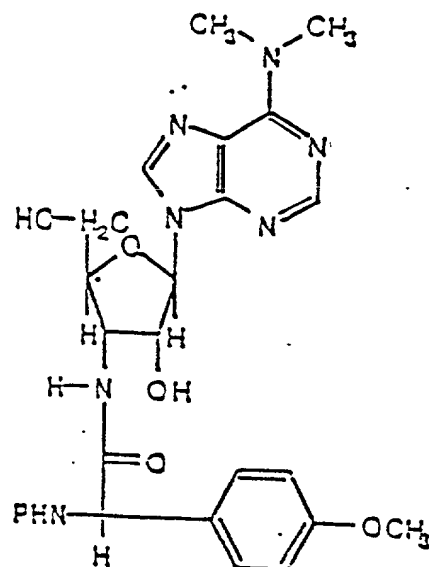


FIG. 4



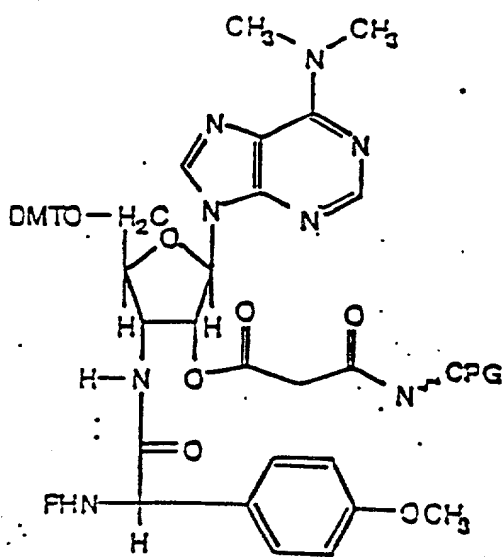
puromycin

protect amino group  
with  $(CF_3CO)_2$



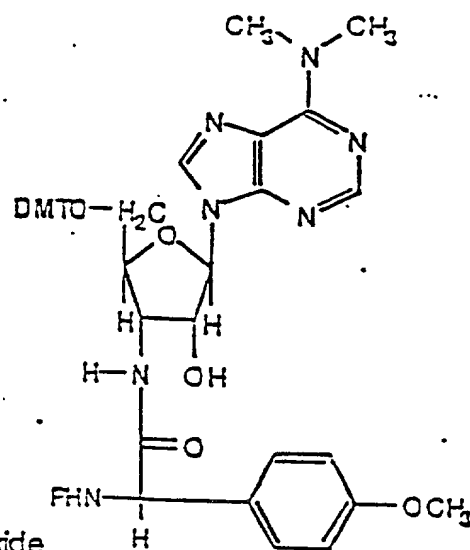
P = protecting group

protect 5'OH with  
dimethyl chloride



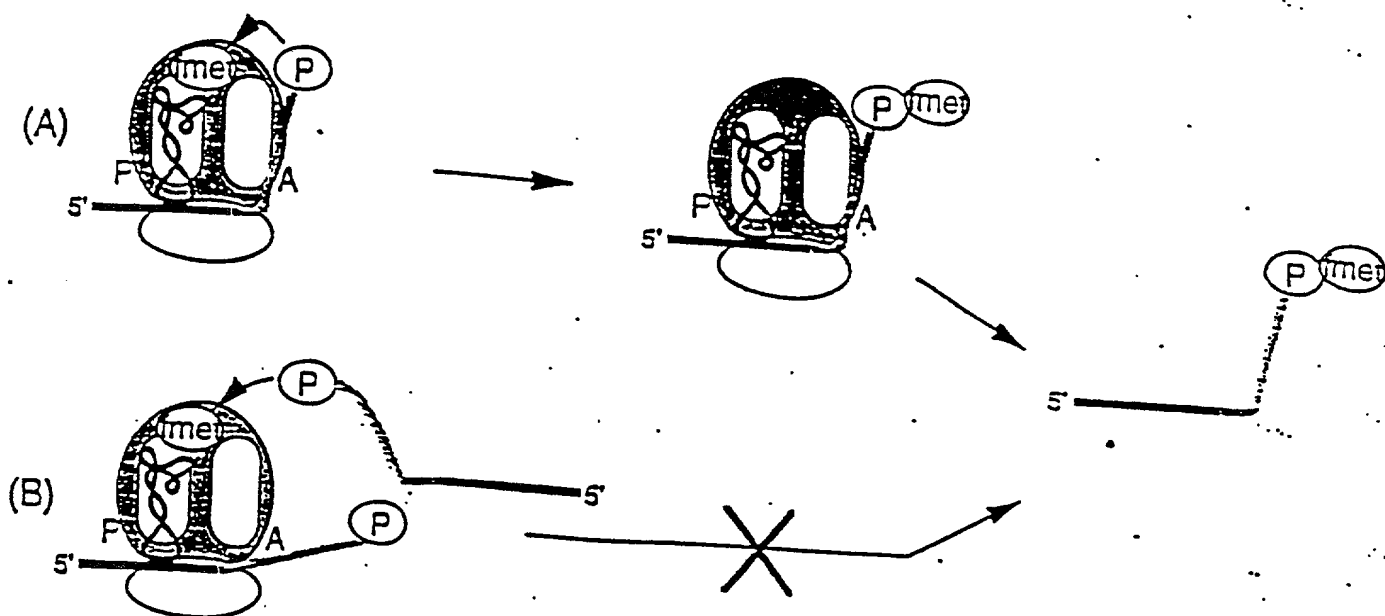
protected, CPG puromycin

link 2'OH to solid  
support alkyl amine  
CPG with  
1) DCC/succinic anhydride  
2) p-nitrophenol



Use as solid support in  
automated DNA synthesizer  
-cleavage yields 3' puromycin  
tethered oligonucleotide

FIG. 5



Lane 1 3 4 5 6  
 $Mg^{+2}$  [mM] 32P 6 9 12 15 18

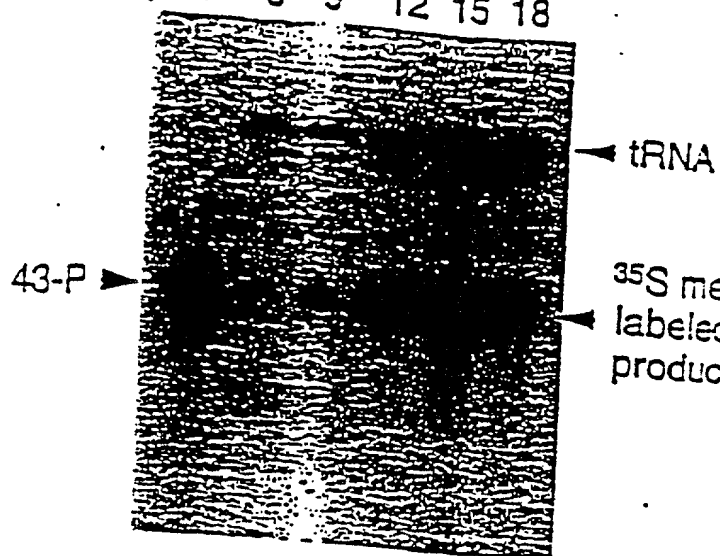


FIG. 6A

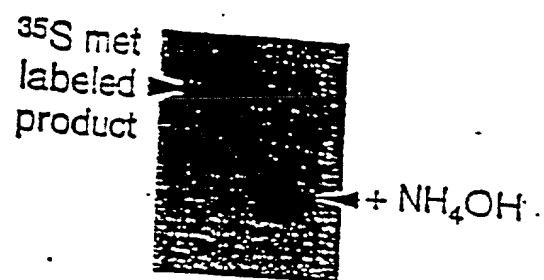


FIG. 6B

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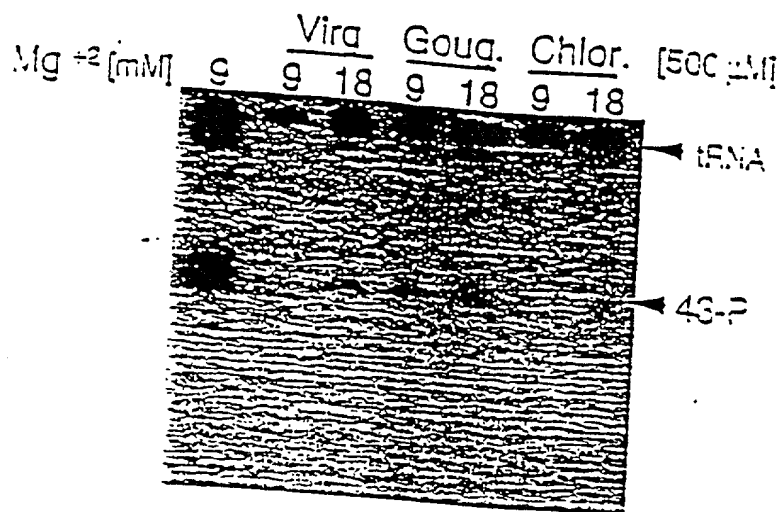


FIG. 6C

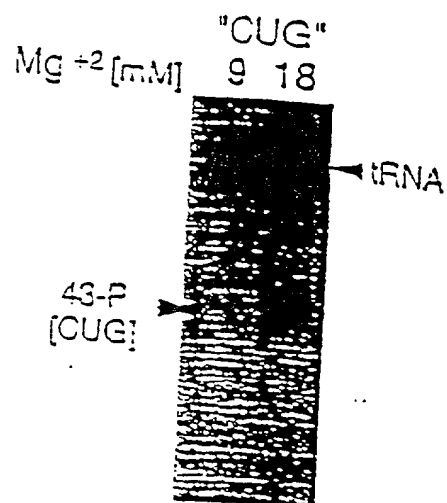


FIG. 6D

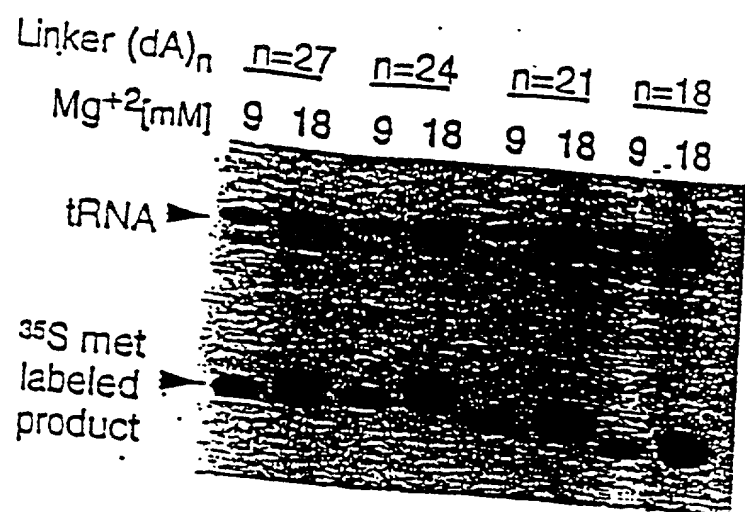


FIG. 6E

09876543210



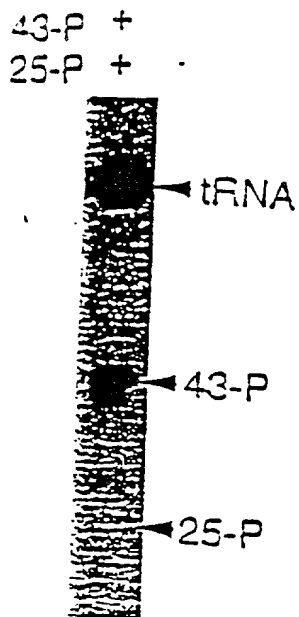


FIG. 6F

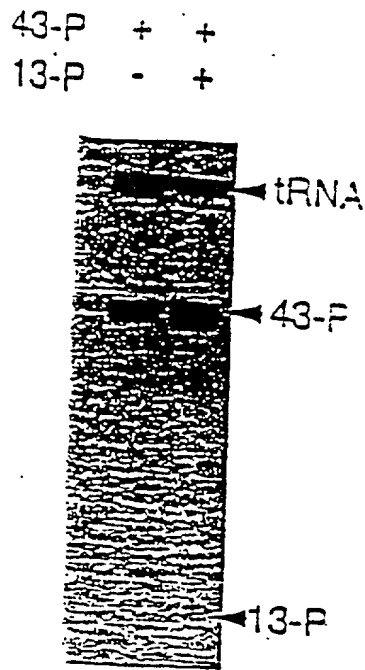


FIG. 6G

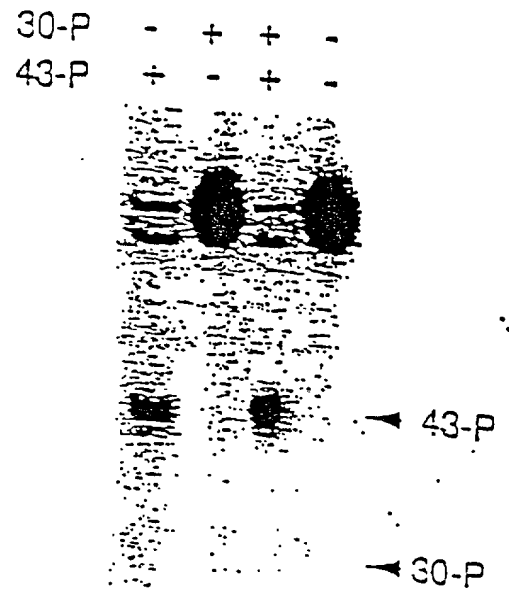


FIG. 6H

000000-000000

FIG. 7A

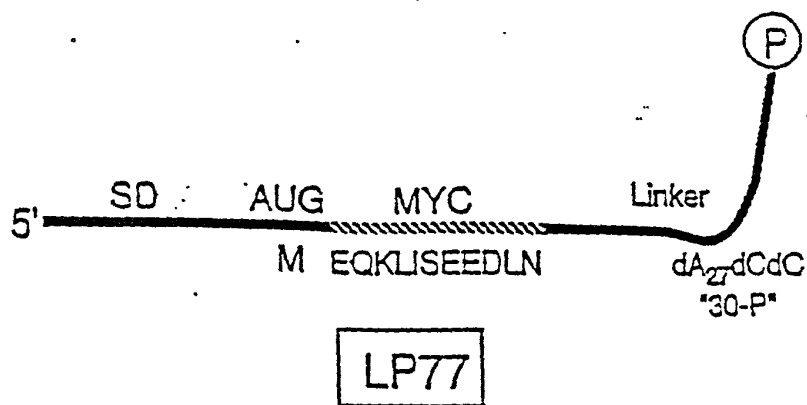


FIG. 7B

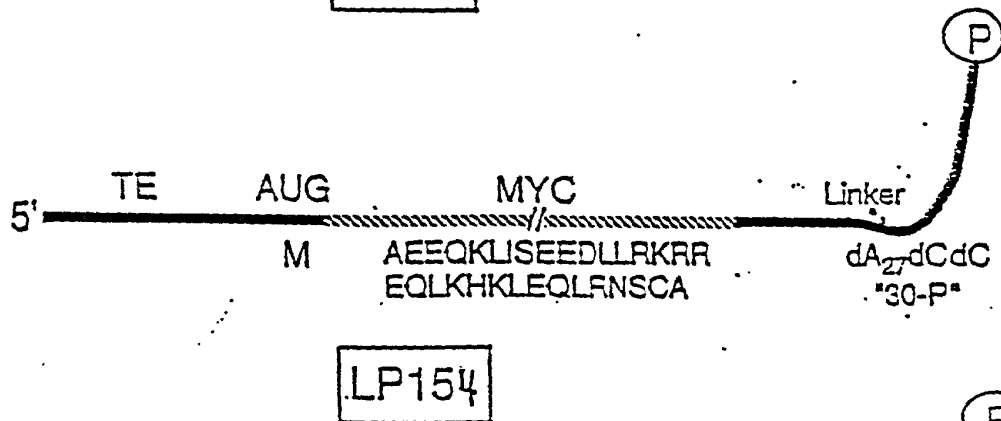
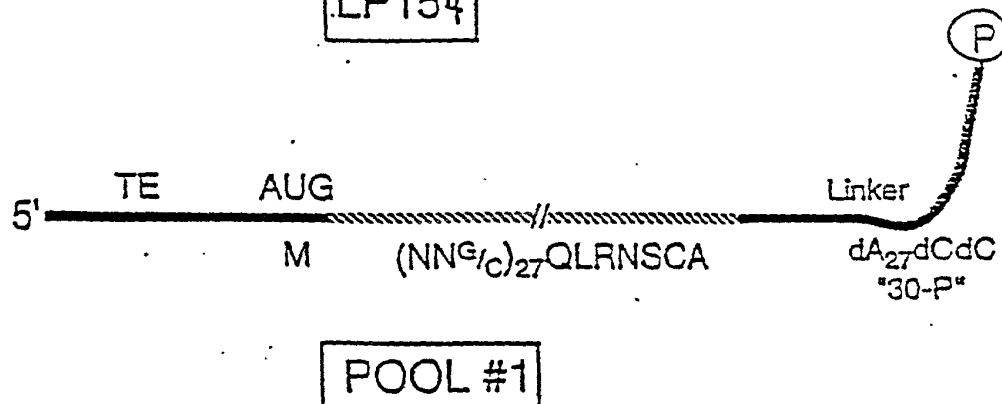


FIG. 7C



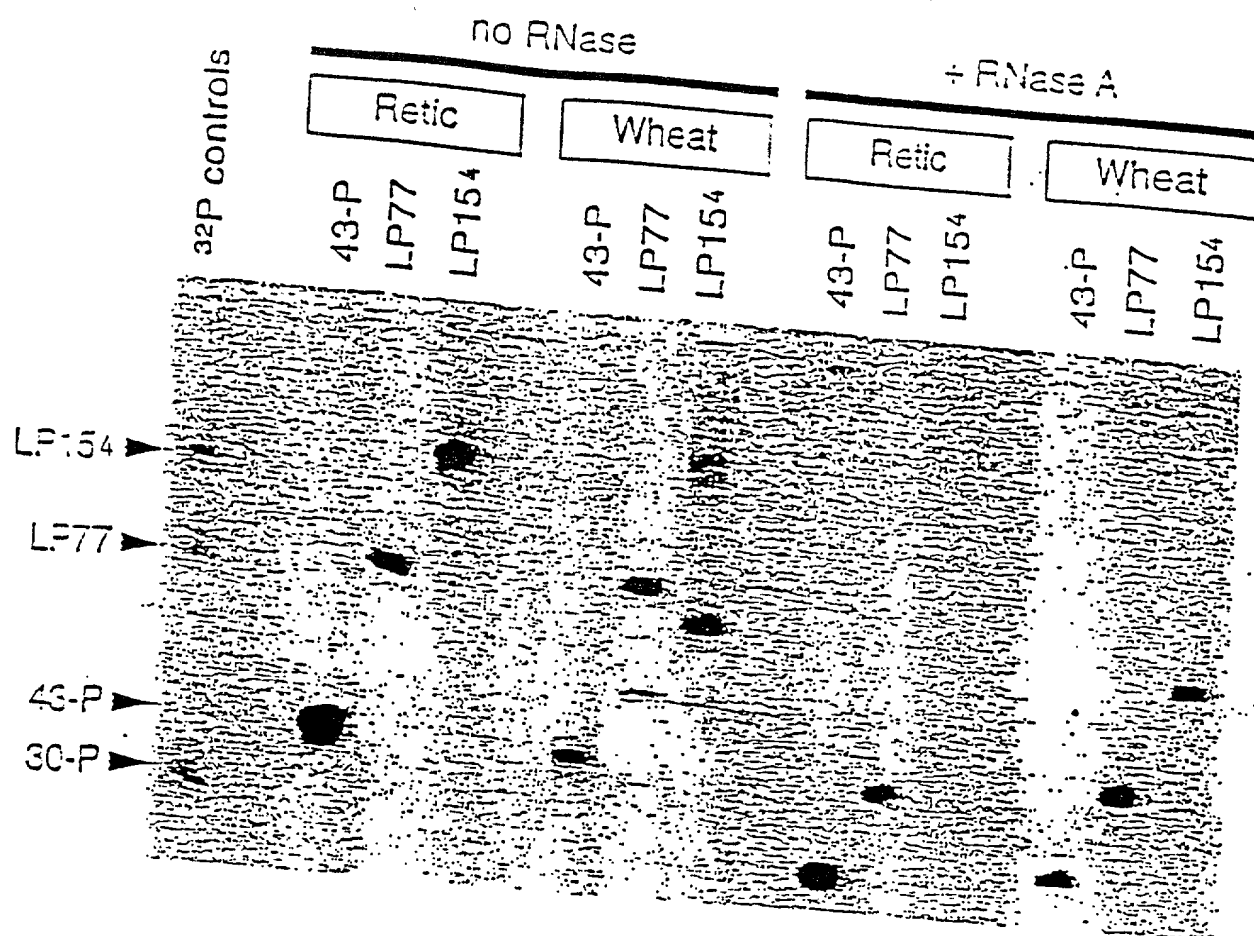
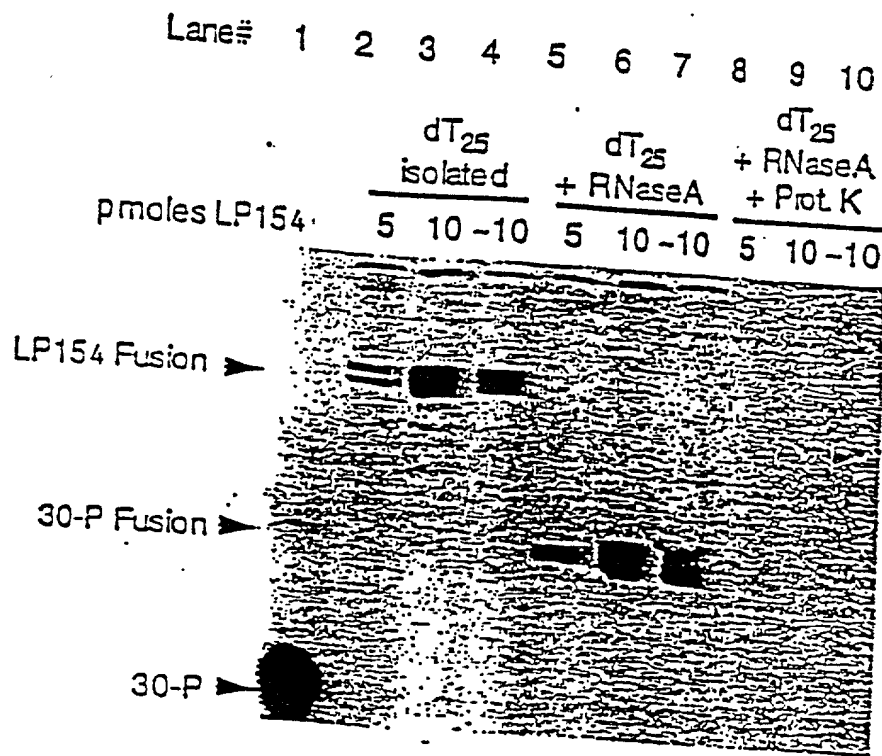


FIG. 8

FIG. 9

# Effects of RNase A and Proteinase K on fusion



009090-5229/860

FIG. 10

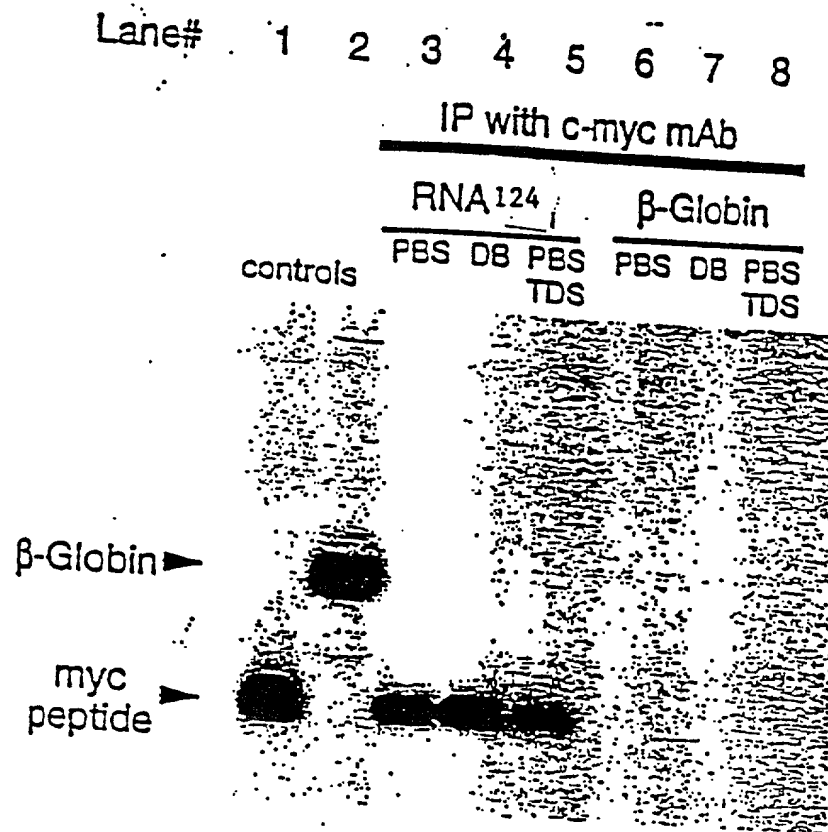


FIG. 11

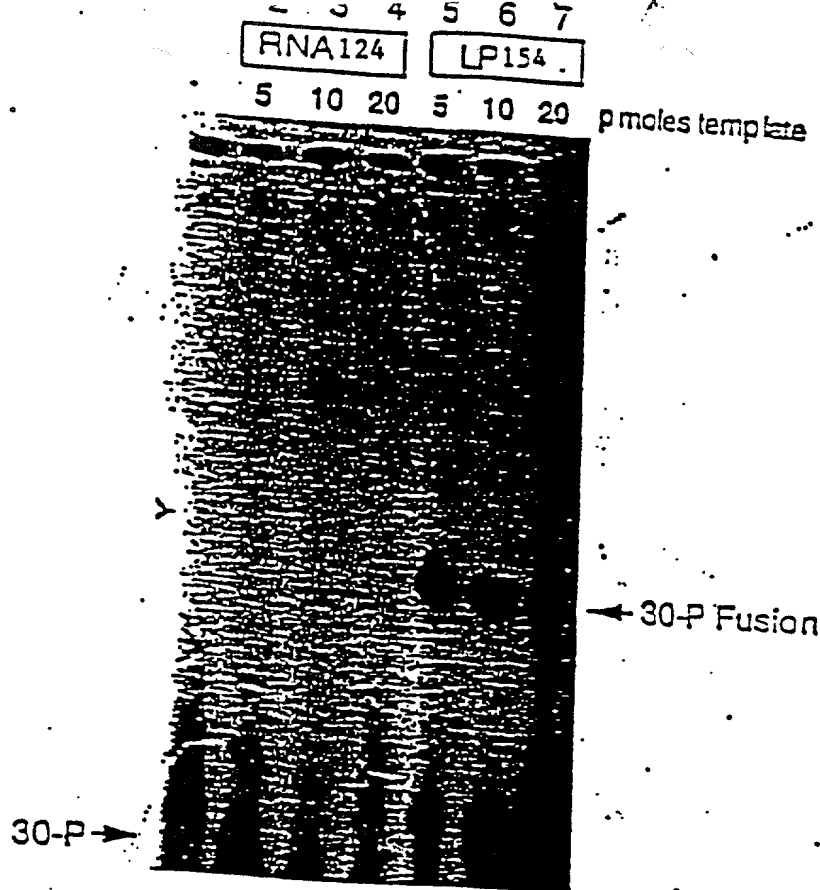


FIG. 12

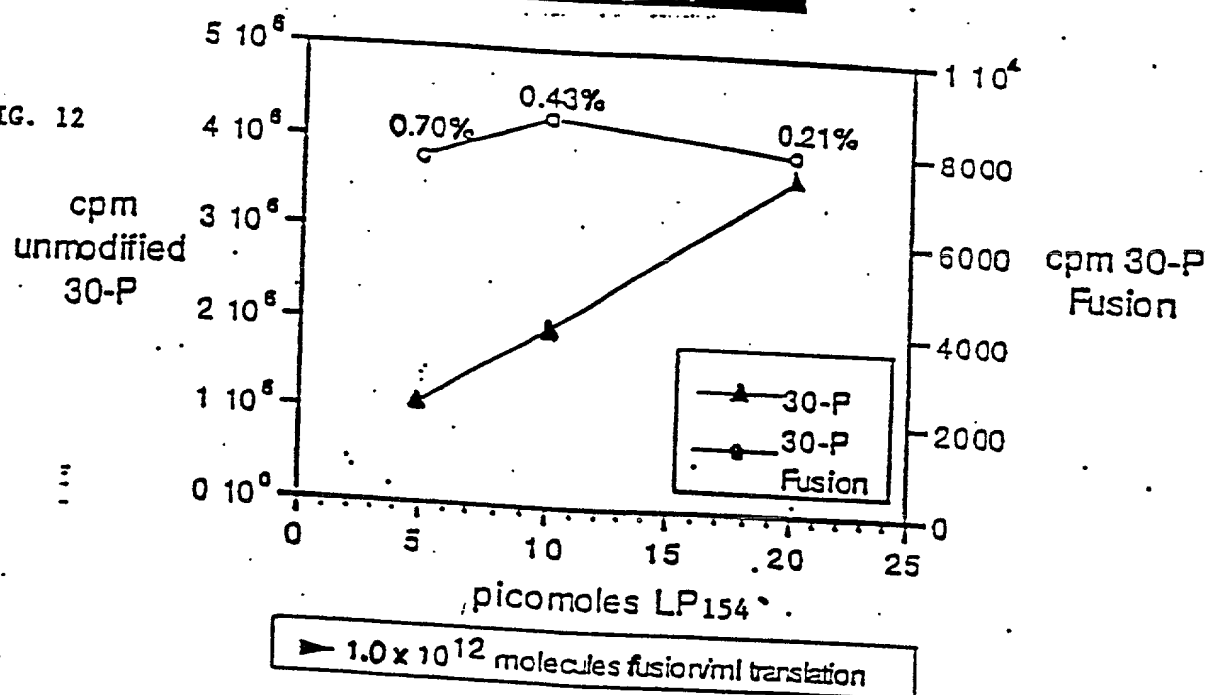


FIG. 13

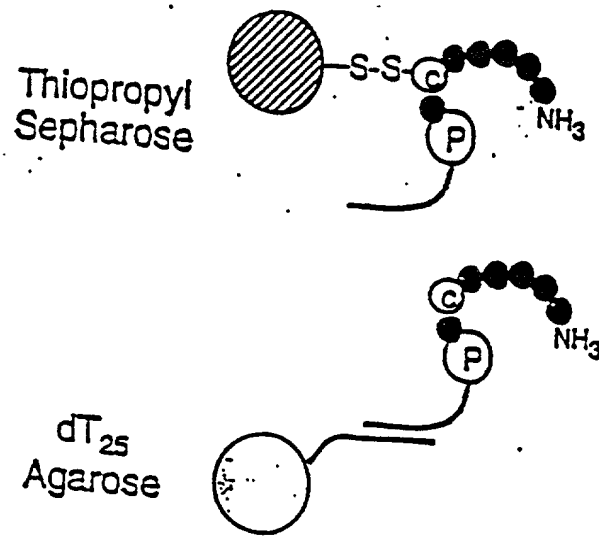
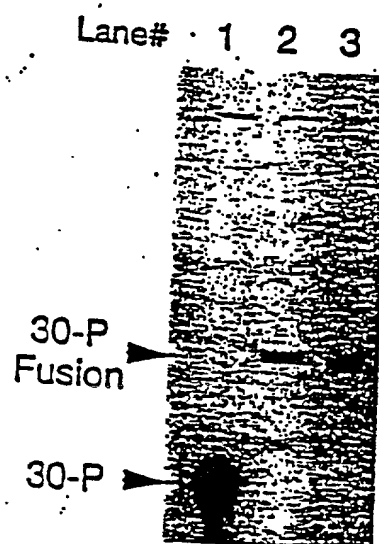


FIG. 14



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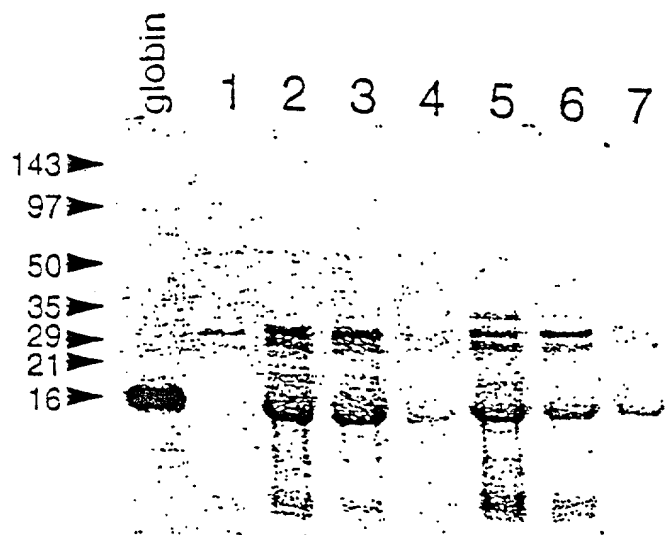


FIG. 15A

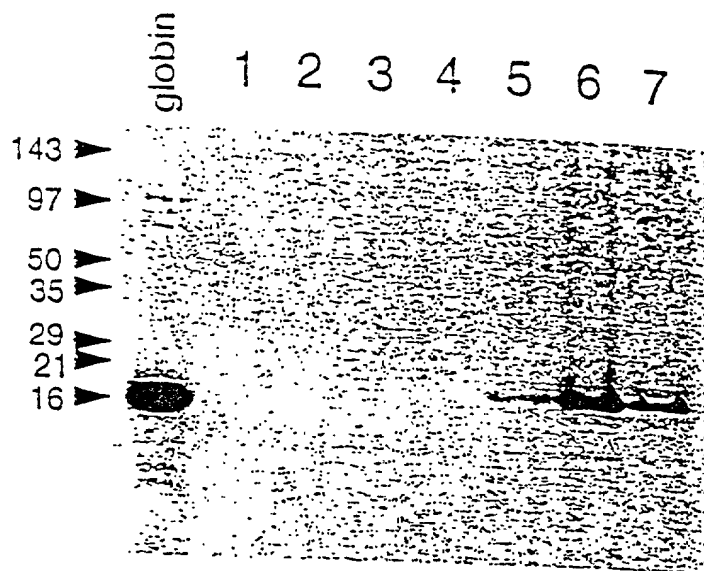


FIG. 15B



FIG. 16 A

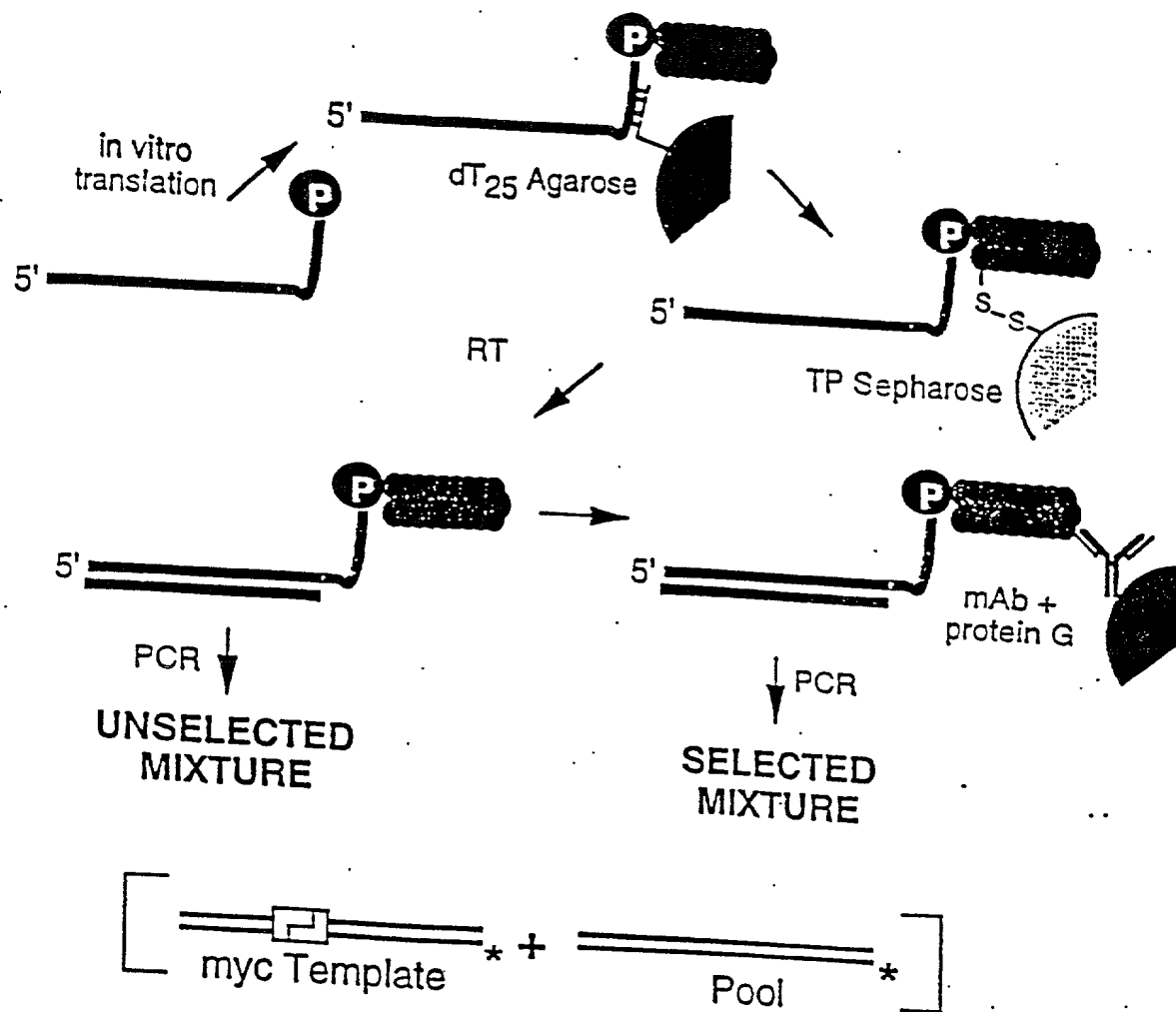


FIG. 16 B

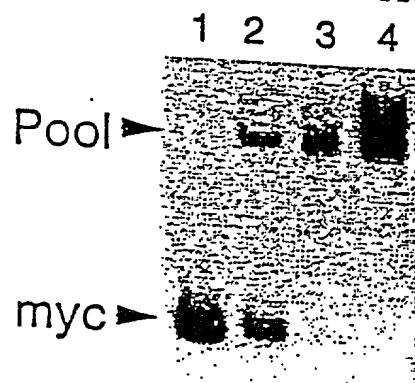
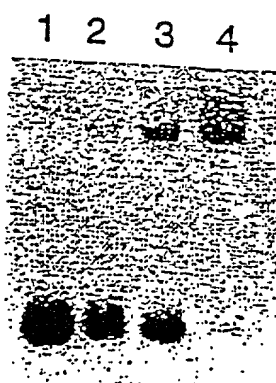


FIG. 16 C



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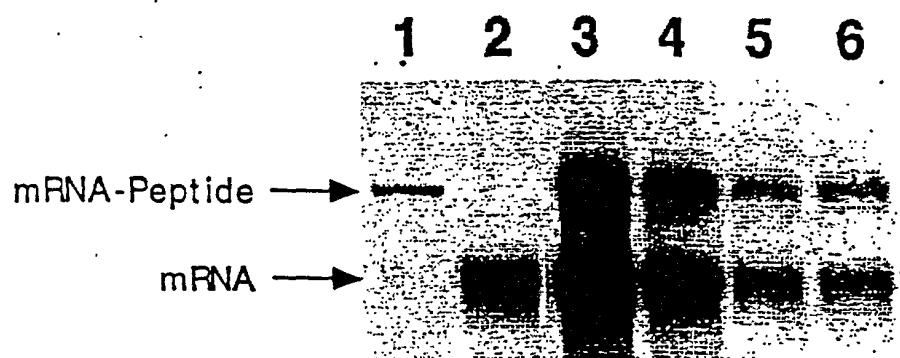


FIG. 18

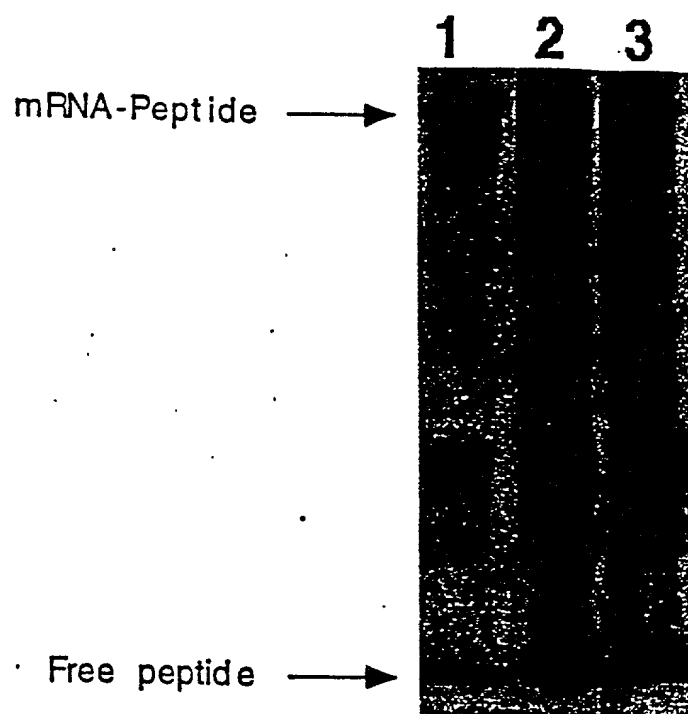


FIG. 19

FIG. 20

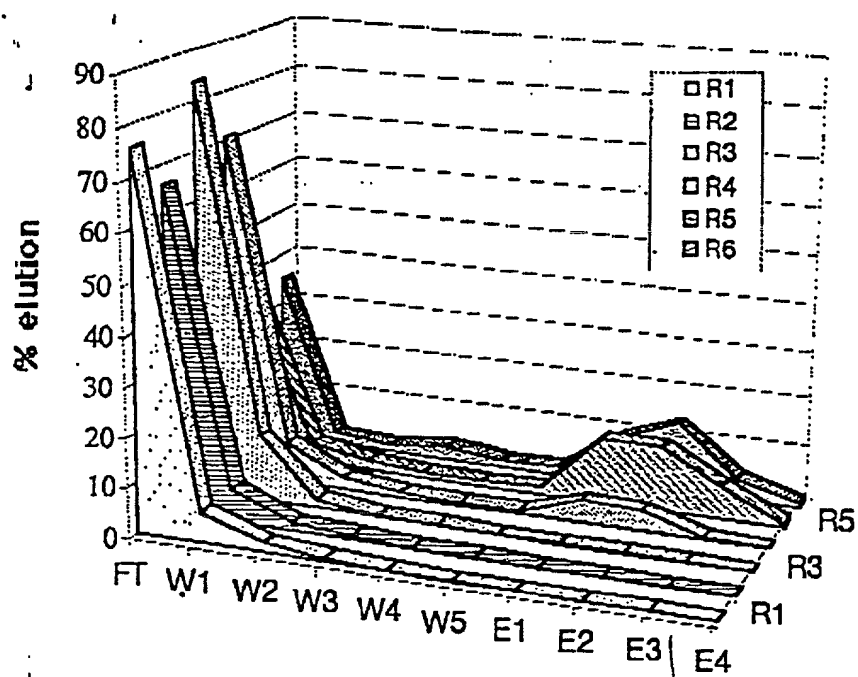
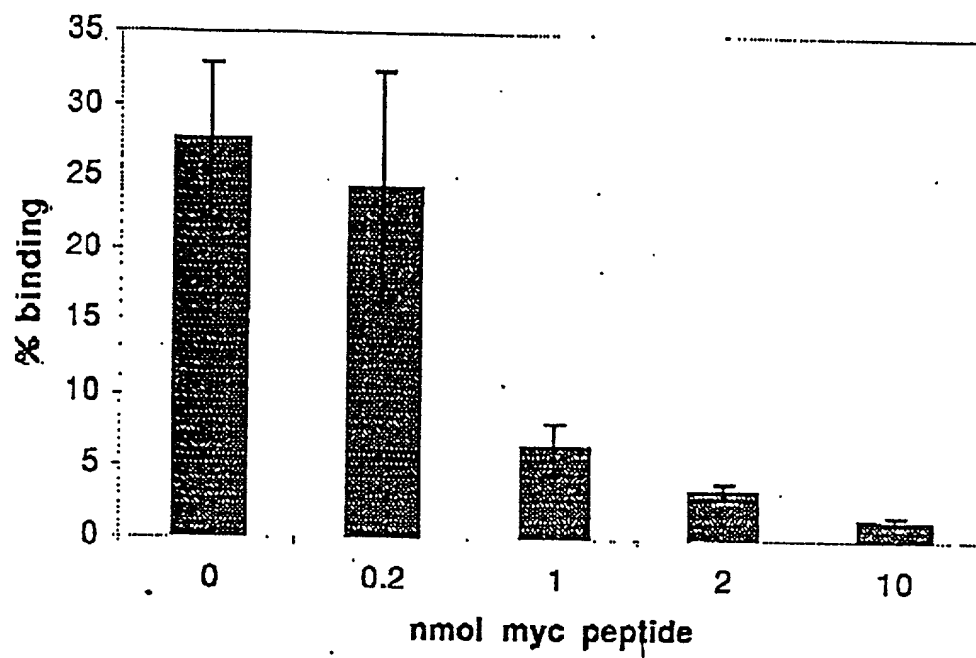


FIG. 21





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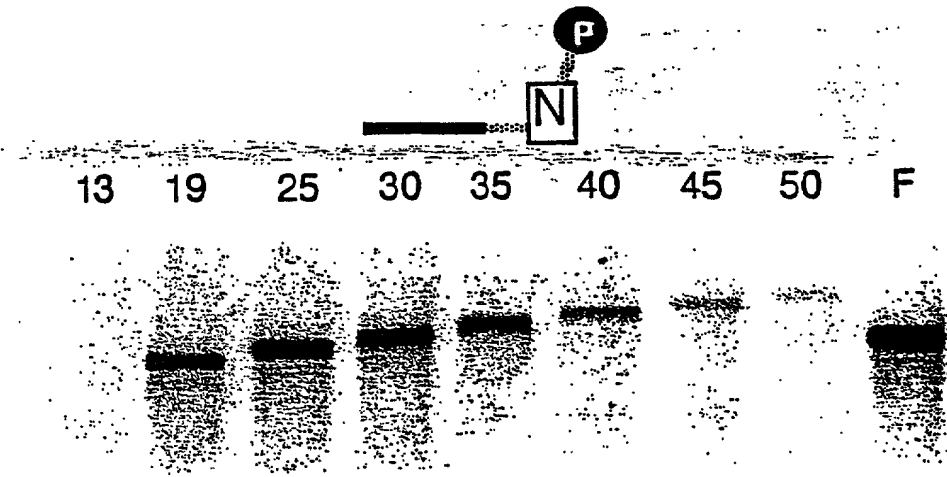


FIG. 23



The diagram illustrates the experimental setup and results for the cross-labeling assay. On the left, two DNA constructs are shown. The top construct is a 5'  $\lambda$ PPase gene with a myc tag and a phosphate group (P) attached to the myc tag. The bottom construct is a 5' myc gene with a  $\lambda$ PPase tag and a phosphate group (P) attached to the  $\lambda$ PPase tag. The right side shows an autoradiograph with three lanes. The lanes are labeled with the presence (+) or absence (-) of Template,  $\lambda$ PPase, and myc. The first lane (Template +,  $\lambda$ PPase -, myc -) shows a single band. The second lane (Template +,  $\lambda$ PPase +, myc +) shows a single band. The third lane (Template -,  $\lambda$ PPase -, myc +) shows a single band. A bracket labeled 'cross-product' points to the bands in the first and second lanes, indicating that the bands are the cross-products of the two constructs.

Template	$\lambda$ PPase	myc
+	+	-
+	-	+
-	+	+